Amendment to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.(currently amended) An electric type compressor motor comprising:

a housing having an inner circumferential surface, the housing also having a first thermal expansion coefficient, the housing further having an elastic part~~;~~ and having a plurality of recesses which are formed around the elastic part extending outwardly in the radial direction of the inner circumferential surface;

an electric motor including a circular stator core pressed to an inside of the housing by tight fit, the stator core having an outer circumferential surface and a central axis, the stator core also having a second thermal expansion coefficient that is different from the first thermal expansion coefficient;

a compressor mechanism accommodated in the housing and connected to the electric motor for compressing gas as driven by the electric motor;

wherein the recesses extend along the direction of the central axis of the stator core, ~~a~~ voids ~~is~~ are defined between the ~~inner circumferential surface~~recesses of the housing and the outer circumferential surface of the stator core so as to prevent the inner and the outer circumferential surfaces from contacting each other in a circular region~~;~~,

wherein the elastic part of the housing is located near each of ~~to~~ the voids, and wherein the elastic part of the housing is elastically deformed when the housing and the stator core expand or shrink so as to tightly fit each other due to a differential between the first and the second thermal expansion coefficients.

2. (currently amended) The electric type compressor ~~motor~~ according to claim 1, wherein the first

thermal expansion coefficient is larger than the second thermal expansion coefficient.

3. (currently amended) The electric type compressor ~~motor~~ according to claim 1, wherein the first thermal expansion coefficient is smaller than the second thermal expansion coefficient.

4. (cancel)

5. (currently amended) The electric type compressor ~~motor~~ according to claim ~~4~~1, wherein the number of the voids is three or more than three.

6. (currently amended) The electric type compressor ~~motor~~ according to claim ~~4~~1, wherein the housing and the stator core have a plurality of contacting portions therebetween, the plurality of voids being provided in such a manner that the plurality of contacting portions are arranged at intervals of an equal angle around the axis.

7. (currently amended) The electric type compressor ~~motor~~ according to claim ~~4~~1, wherein the housing and the stator core have a plurality of contacting portions therebetween, the plurality of voids being provided in such a manner that the plurality of contacting portions are arranged at intervals of an unequal angle around the axis.

8. (currently amended) The electric type compressor ~~motor~~ according to claim 1, wherein the void is provided by forming a recess in the outer circumferential surface.

9. (currently amended) The electric type compressor ~~motor~~ according to claim 8, wherein each of the recesses of the stator core has ~~a central axis, the recess having~~ a bottom surface in which a region is located at the opposite sides in a circumferential direction of the stator core, at least the

region existing in a first imaginary cylindrical surface, whose center is located on the axis, the inner circumferential surface and the outer circumferential surface being contacted with each other in a contact region, the contact region existing in a second imaginary cylindrical surface, whose center is also located on the axis, radial differential between the first and the second imaginary cylindrical surfaces being predetermined in such a manner that a ratio of the radial differential to the radius of the second imaginary cylindrical surface is approximately from 0.5 to 1.5%.

10. (currently amended) The electric type compressor ~~motor~~ according to claim 8, wherein a thinned portion in the shape of a concave surface is formed in the recess of the stator core.

11. (cancel)

12. (cancel)

13. (currently amended) The electric type compressor ~~motor~~ according to claim ~~12~~1, wherein ~~the stator core has a central axis,~~ the number of ~~spots where~~ the elastic part is ~~expanded outwardly in the radial direction being~~ five or less than five around the axis of the stator core.

14. (currently amended) The electric type compressor ~~motor~~ according to claim ~~11~~1, wherein each of the recesses of the housing ~~the recess~~ has a bottom surface in the shape of a concave surface.

15. (currently amended) The electric type compressor ~~motor~~ according to claim 1, wherein ~~the stator core has a central axis,~~ the inner circumferential surface ~~and the outer circumferential surface~~ being contacted with each other in a contact region, the contact region existing in an

imaginary cylindrical surface, whose center is located on the axis, the contact region having a first predetermined area, the imaginary cylindrical surface having the same length as the stator core in the direction of the axis, the imaginary cylindrical surface also having a non-contact region where the inner circumferential surface and the outer circumferential surface do not contact each other, the non-contact region having a second predetermined area, the voids being formed in such a manner that the first predetermined area becomes smaller than the second predetermined area.

16. (currently amended) The electric type compressor ~~motor~~ according to claim 15, wherein a ratio of the first predetermined area to the total area of the first predetermined area and the second predetermined area is 30% or less than 30%.

17. (currently amended) The electric type compressor ~~motor~~ according to claim 1, further comprising a coil that is intensively wound around the stator core.

18. (currently amended) The electric type compressor ~~motor~~ according to claim 1, further comprising a coil that is distributively wound around the stator core.

19. (currently amended) The electric type compressor ~~motor~~ according to claim 1, wherein the housing is made of aluminum and/or aluminum alloy, the stator core being made of silicone steel.

20. (currently amended) The electric type compressor ~~motor~~ according to claim 1, wherein a first void element is provided by forming a recess in the outer circumferential surface, a second void element being provided by forming a recess in the inner circumferential surface, the void including the first void element and the second void element.

21. (cancel)

22. (currently amended) The electric type compressor according to claim ~~21~~1, wherein ~~the stator core has a central axis,~~ a first space and a second space ~~being~~ are defined at opposite sides of the axis in the housing, the voids interconnecting the first space with the second space, the compression mechanism being placed at the first space side, a mouth of the electric type compressor, which is formed through the housing so as to correspond to the second space, being connected with an external piping, the voids being utilized as a gas passage that interconnects the compression mechanism with the mouth.